

MAG TRAFFIC SIGNAL OPTIMIZATION PROGRAM

REQUEST FOR PROJECTS

The Maricopa Association of Governments (MAG) serves as the forum for planning regional investments in Intelligent Transportation Systems and Advanced Traffic Management Systems infrastructure. The MAG Regional Concept of Transportation Operations, developed in 2003, serves as the overall plan for transportation operations in the region. This plan led to the establishment of the Traffic Signal Optimization Program (TSOP). The program provides assistance to member agencies that own and operate local traffic signal systems, in maintaining these systems adjusted to match the prevailing traffic patterns.

MAG plans to launch a number of TSOP projects through on-call consultant services contracts. These projects will provide technical assistance to MAG member agencies for improving traffic signal coordination, optimization and review operations through simulation modeling. Projects could also assist member agencies in developing traffic signal coordination networks. The total amount of funds available for this program is \$300,000.

The deadline for project applications submittals is **September 26, 2008**. Please complete and submit the attached application to:

Sarath Joshua
Maricopa Association of Governments
302 N. 1st Avenue, Suite 300
Phoenix, Arizona 85003
Fax: (602) 254-6490
Email: sjoshua@mag.maricopa.gov

The anticipated schedule for launching projects is:

Receive all project applications	September 26, 2008
Review and rank project applications	September 29-October 6/7, 2008
Projects will be launched following the finalization of the on-call contract with consultants	

Projects that require traffic data collection would be delayed until after the holidays

Information on Project Review Process, Agency Responsibilities etc.

The TSOP Oversight Group, consisting of MAG ITS Committee members and MAG staff will review project applications. Qualified projects will be ranked and funded based on the Project Scoring Criteria. Additional requirements are:

A. Requests for assistance on individual projects are being accepted up to a maximum of \$30,000 per project, and could include:

- Hands-on training in the use of the signal optimization software.
- Develop/Optimize signal timing plans for traffic signals.
- Field offset and timing adjustments as required following implementation.
- If necessary, acquisition of turning movement counts for the AM peak, PM peak, and Off-peak.

B. Preference will be given to those projects from agencies that:

- Do not have in-house staff resources available, or expertise in the development of traffic signal timing.
- Have signalized corridors or networks that are not presently well coordinated.
- Have arterial corridors or street networks that are experiencing high traffic delays.

C. In return for this funding, the Cities are expected to undertake the following:

- Appoint a project manager to be the single source of contact for the agency
- Provide the necessary background information to the On-call consultants, including:
 - Scaled aerial photos or maps of the City to create the background Synchro network.
 - Signal phasing, clearance intervals, lane geometry, and speed limits
- Conduct turning movement counts during the AM peak, PM peak, and Off-peak periods, where necessary.
- Implement the signal timings in the field.
- Maintain the Synchro networks on an on-going basis, and update the signal timings as required.